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2007 ANNUAL REPORT for the WEST LAFAYETTE ENGINEERING DEPARTMENT

The following is a brief summary of the projects, developments, and day to day operations of the West Lafayette City Engineer's Office in 2007.

Road Projects:

- **Tapawingo South:**
 - Crider returned to put the finishing touches on this project in March 2007, after a winter break.
 - Finishing touches included asphalt surface course, a small amount of concrete work, signage, sod, pavement markings, and some minor traffic signal modifications.
 - Construction finished and the ribbon-cutting took place in early June 2007.
- **Lindberg Road:**
 - Several meetings have taken place between INDOT and the City regarding the direction that INDOT would like to take.
 - Atlas still has a substantial amount of outstanding claims against this project, and has filed a lawsuit against INDOT.
 - Geotechnical borings were done in summer 2007 to determine if fill material was placed per the plan specifications.
 - Borings do not indicate that the fill material is consistent enough to achieve the physical properties required by the specifications.
 - The future of the road is still uncertain. The City does not want INDOT to remove itself from assisting with a solution. FHWA will only assist with fixing part of the areas in the bog.
- **Purdue Transportation Plan:**
 - HE-BFS and Butler, Fairman & Seufert (BFS) are currently working on grade review plans for Phase IA of the Purdue Perimeter Parkway.
 - Purdue has hired Sasaki Association of Boston, MA to complete a Master Plan for the West Lafayette campus. Sasaki has approached Purdue and the City regarding some recommended changes to the overall Purdue Perimeter Parkway plan. These changes could significantly impact cost and the time

that it will take to design the Perimeter Parkway. For now, the consultants have been asked to go ahead with Grade Review plans and submit them to INDOT for review.

- **Salisbury Street Safety Improvements:**

- Phase I of the Safety Improvements (from Robinson to Riley) were completed in the spring of 2007.
- Delays in the survey for Phase II (Riley to Rainbow) pushed construction for this phase from 2007 back to 2008. The current objective is to have all R/W acquisition done and utilities relocated to begin construction in the spring 2008.

- **Cumberland Avenue Reconstruction:**

- In January, a Community Planning Committee (CPC) was formed to provide guidance for the vision and future of Cumberland Avenue and the scope of any reconstruction projects. The CPC was comprised of 15 members each representing the various organizations and property owners along the corridor.
- The CPC met five times throughout the spring to complete several exercises and discussions to analyze the strengths, weaknesses, threats and opportunities for Cumberland Avenue.
- In June, the CPC held two public meetings to show several conceptual ideas for reconstructing Cumberland.
- In July, public comments were reviewed by the CPC and incorporated into the preferred design alternate.
- Through the fall, a multi-media presentation video was created by the consultant to visually show the proposed scope of the preferred alternate.
- The CPC met in December to review the video and provide their feedback.
- A draft final report outlining the public involvement process, traffic analysis, cost estimates and other relevant information has been prepared by Schneider for review by the City. A draft traffic study has also been submitted for review and comment.

- **2007 Street Resurfacing:**

- Work was completed in August on the streets that were resurfaced.
- Milestone Contractors placed nearly 2900 tons of asphalt and installed just over 1100 linear feet of new concrete curb.
- Approximately \$530,000 of MVH, LRS, and LOHUT funds were used.
- Part of the curb work that took place under this contract was to realign the curve and intersection of Northridge and Ravinia.
- The streets that were resurfaced this year required a considerable amount of patching, which drove up construction costs.

- **2008 Street Resurfacing:**

- Engineering is currently updating the three-to-five year planning window for street resurfacing.
- The street inventory, which rates each street based primarily on the pavement condition, will be updated in 2008. This will help in selecting streets to be resurfaced and prioritizing work each year.
- The 2008 Street Resurfacing Project is currently under design and cost estimates are being prepared.

- **Yeager Road Reconstruction, Phase I:**
 - Phase I includes Yeager Road from US 52 to Northwestern Ave.
 - American Structurepoint was chosen as design engineer for this phase of Yeager Road.
 - Master contract was approved by INDOT in late 2007.
 - PE Agreement approved by BOW in December 2007.
 - Both documents have not been returned from INDOT, to date.
- **Yeager Road Reconstruction, Phase II:**
 - Phase II includes Yeager Road from Kalberer Road north to the new City limits. The typical cross section of this portion of road will be similar to that of Yeager Road between Cumberland Avenue and Kalberer Road.
 - Crossroad Engineers was selected as design consultant, as they were previously selected by the Tippecanoe County Highway Department to design Yeager Road north of the City limits. Using them for our portion of Yeager Road will make the project more efficient than if two consultants were working on separate projects.
 - Crossroad surveyed the project extents and developed Grade Review plans. These plans have been submitted to INDOT for review.

Sidewalk Projects:

- **2007 CDBG Sidewalks:**
 - Sidewalk, curb, drive approaches, and universal access ramps were installed on the section of Salisbury between Lutz and Stadium.
 - Work started in June and was completed in July.
 - CDBG funds were used to pay for this project.
- **2007 Sidewalk Spot Repair and Universal Access Ramp Installation:**
 - Fifty-five new universal access ramps were installed in the Bar Barry Heights subdivision this year.
 - Twenty-five sidewalk city-wide locations were repaired as "spot repairs" and a couple of hazardous trees were removed as a part of this project. These locations were targeted because the sidewalk was in poor condition.
 - This project was started in September and completed in November.
 - An inventory update was conducted this year for all the universal access ramps throughout the city. An inventory update for the condition of sidewalks throughout the city is 85 percent complete and will be completed in 2008.
- **Sycamore Lane Traffic Calming:**
 - HE-BFS was selected to do the design for Sycamore Lane.
 - Several meetings have been held with INDOT to determine the project submission requirements, and review the scope.
 - On October 15th HE-BFS submitted Grade Review Plans to the City and INDOT for review. No comments have been received from INDOT, to date.

Other Projects:

- **Fire Station #3**
 - In February, the City proposed building a new fire station at the northwest corner of Kalberer Road and Soldiers Home Road.

- The site was chosen based on the recommendations of a site study and included residential, fire station, and commercial uses.
- Negative public opinion of the commercial land use at this corner was strong and the City held a series of town hall meetings in the spring to discuss the site study and take public comments.
- In order to provide fire service by a career fire department to the annexation area, the Parks Maintenance Barn was remodeled to serve as a temporary fire station. This would allow additional time to choose a location for the permanent Fire Station #3
- A supplement report to the original site study has been started, but has not been finalized at this time.
- **Safe Routes to School**
 - The City obtained two grants totaling \$321K.
 - For the first grant, the city received \$250K to install new school zone flashers and pedestrian crossing lights to be placed around the schools to remind drivers they are driving through a school zone. Eight new pedestrian-activated crosswalk lights will coordinate with ten school zone flashers and universal access ramps at Cumberland and Happy Hollow Elementary schools.
 - For the second grant, the city received \$71K to develop a SRTS plan for the city. The City will establish two school-centered Transportation Safety Committees to sponsor walking and biking outreach programs at Cumberland and Happy Hollow Elementary schools.
 - Met with INDOT's LPA coordinator to discuss proposal, reimbursement issues and visit the sites.

Planned Developments:

- **Completed in 2007**
 - Linwood (Apartments)
 - 135 S. River Road
 - Built by Michael Lin, project cost \$2.5M
 - 22 unit apartment building, parking garage and parking lot
 - Kitty's Corner
 - 140 S. Salisbury Street
 - Built by Carbin Development, project cost \$413K
 - 12 unit apartment building and parking lot
 - Fairway Knolls II (Apartments)
 - 1395 Neil Armstrong
 - Built by Fairway Apartment, LLC, project cost \$1.75M
 - 31 unit apartment building and parking lot
- **Ongoing in 2008**
 - Chauncey Square, Phase I & Phase II (Apartments and Commercial)
 - 102 N. Chauncey Avenue
 - Built by Fleischhauer Rentals, project cost \$12M

- 48 units on 2nd – 5th floors, commercial use on 1st floor, and parking garage
- The Redevelopment Commission funded some curb, sidewalk, ramps, and re-surfacing done around the Chauncey Square Development (block of Columbia, Chauncey, South, and Salisbury) under this contract. This work totaled just over \$82K. More work in this area will be completed in 2008.
- Westminster Village (SFR subdivision)
- Catherwood Gardens (SFR subdivision)
- Lauren Lakes (SFR subdivision)
- The Villas at Stonebridge (SFR subdivision, Quad-Plex buildings)
- Burger King (Commercial)

Sewers and Drainage:

- **Western Interceptor, Phase I:**

- Phase I runs from Windsor Drive south through the Purdue North golf course, west along Cherry Lane, across McCormick, along the north side of the Purdue Tennis Facility. A portion of this phase also connects the Blackbird Farms Lift Station by gravity flow.
- Total amount of pipe installed was 1,500 of 24-inch ductile iron and 8,000 feet of 27-inch PVC.
- Construction began in late 2006, and continued through the winter.
- Progress through the golf course was made ahead of the stringent project milestone that had been set because the 2007 NCAA Men's Golf Championship was held at Purdue in the fall of 2007.
- Total cost: \$2.6M.

- **Western Interceptor, Phase II:**

- Phase II runs from the southern end of Phase I south through the Purdue Cross Country course, crosses SR 26, and continues south to where it will enter into the future INDOT Limited-Access Right-of-Way (LARW) for the relocated US 231 near the Purdue Airport.
- Phase II will cross through a heavily wooded ravine area, and at times will be nearly 40 feet deep.
- Total amount of pipe to be installed is 8,400 feet of 36-inch lined ductile iron pipe.
- Atlas Excavating was awarded contract with the lowest responsive bid of \$3.8M.
- Atlas began construction in December 2007.

- **Salisbury Street Sewer Improvement Project:**

- Low bidder was Atlas Excavating.
- Purpose of project was to replace a deteriorated 8" combination (sanitary and storm) sewer line along Salisbury Street from South Street to State Street.
- The 8" combination sewer was replaced with a new 8" PVC sanitary-only sewer, and a 21" concrete storm sewer. The new PVC sanitary sewer was placed on Salisbury Street from State Street to South Street, and on South Street from Salisbury Street to Chauncey Avenue. The additional line on South Street was to serve the new Chauncey Square development.

- The storm sewer started at the intersection of Columbia Street and Salisbury Street, and ran to State Street, discharging into INDOT's storm sewer on State Street. Removing this storm water from the sanitary line created a drastic improvement for the capacity issues in this area of the City.
- In addition to the pipe improvements, new curb and gutter, sidewalks, drive aprons were installed. Salisbury Street was resurfaced from State Street to South Street. All other trenches were temporarily patched – to be resurfaced after the completion of Chauncey Square in 2008 or 2009.
- Two test strips of pervious pavement were installed as a part of the resurfacing of Salisbury between the Razor's Edge parking lot entrance and South Street. On the east side of Salisbury, in the parking lane, pervious asphalt was installed. On the west side, also in the parking lane, pervious concrete was installed. The benefits of pervious pavements are many: stormwater is filtered of contaminants by the soil underneath the pavement, groundwater is restored, and less stormwater must be conveyed by the storm sewer system. In combined sewer parts of town, this would equate to less water going to the wastewater treatment plant to eventually be unnecessarily treated or to help cause combined sewer overflows (CSO's) during rain events.
- Project was completed on time, with a very aggressive construction schedule so that construction would be done when most students were out of town during the summer semester.
- Total cost of this project was \$502K, well below the \$560K budgeted cost.
- **NPDES Phase II Implementation:**
 - There has been continued implementation of NPDES Phase II requirements, particularly on new construction projects.
 - Stormwater Plan review and inspection fees were formally established with Ordinance 28-07.

Major Building Projects:

- **Completed in 2007**
 - International Expansion (Purdue Research Park)
 - Med Institute Remodel (US 52 and Geddes Blvd.)
 - Addition to Chiropractic Clinic (Navajo Street)
 - Innervision (Purdue Research Park)
 - Beta Theta Pi Fraternity (Littleton Street)
 - Sigma Chi Fraternity (Littleton Street)
 - College Station Expansion (Win Hentschel Blvd.)
 - Ross Enterprise Center (Purdue Research Park)
 - Just Us Kids Daycare (Purdue Research Park)
 - Temporary Fire Station (Kalberer Road)
- **Continuing into 2008**
 - Wabash Commons (US 52 and Nighthawk Drive)
 - Purdue Crew Facility (Levee)
 - Wastewater Treatment Facility – Digester Renovations & Alternate Power (South River Road)

Subdivisions:

- Amberleigh Village
- Arbor Chase
- St. Joseph's Court
- Prophet's Ridge
- Appleridge & The Orchard
- Wake Robin
- Catherwood Gardens
- Lauren Lakes
- The Villas at Stonebridge

Building Permits:

- Total building permits issued: 372
- Total constructed dollar value: \$51,608,956

Plan Reviews:

- Total plan reviews: 236

Inspections:

- Total building inspections: 1731

Excavation Permits:

- Total excavation permits issued: 370

NPDES Permits:

- Total NPDES permits issued: 7

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "D.M. Buck".

David M. Buck, P.E.
City Engineer